# ELECTRONIC COMMERCE/ ELECTRONIC DATA INTERCHANGE (EC/EDI) OVERVIEW FOR

#### STRATEGIC SYSTEMS PROGRAM OFFICE

#### **OBJECTIVES**

- n At the completion of this presentation you will know:
  - What EC/EDI is
  - What EDI transaction sets and documents are, and how they support DoD procurement
  - Why the Government is changing procurement systems and processes
  - How FASA initiated EC within the Government, and its impact on procurement
  - What FACNET is
  - How SPS utilizes EDI
  - About efforts to improve the Government's EDI capabilities

#### WHAT IS EC/EDI

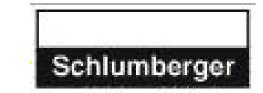
Electronic Commerce is the paperless exchange of business information using EDI, E-Mail, Computer Bulletin Boards, FAX, Electronic Funds Transfer, & other similar technologies.

In its simplest form, Electronic Data Interchange (EDI) is the computer to computer exchange of standard business documents in electronic format between two organizations.



#### HISTORY OF EDI





- •The concept and technology has been around industry for more than 20 years
- •Recently EDI has caught the attention of the world business community























#### BASIC DEFINITIONS

- **Trading Partner** The sending and/or receiving party involved in the exchange of EDI transmissions.
- Value Added Network (VAN) A VAN is a third party network service provider. VANs add value to the EDI environment by allowing multiple computer types, modems, and transmission speeds to communicate through the VAN electronic mailbox.
- **Translator** Software that is used to translate EDI data to a corporate proprietary format and vice versa.
- **Transaction Set** The EDI term for a business document, such as a purchase order or invoice.
- **Standards** The format and contents of business documents giving EDI linked computers the ability to speak the same language:
  - American National Standards Institute (ANSI)
  - Accredited Standards Committee (ASC)
  - X12 Subcommittee for EDI

#### TYPICAL ANSI X12 TRANSACTION SETS

810 - Invoice

840 - Request for Quotation (RFQ) \*

843 - Response to an RFQ \*

838 - Trading Partner Profile

997 - Functional Acknowledgment

824 - Application Advice

836 - Procurement Notices \*

850 - Purchase Order \*

864 - Text Message

832 - Price/Sales Catalog

855 - PO Acknowledgment \*

860 - PO Change \*

865 - PO Change Acknowledgment

869 - Order Status Inquiry

870 - Order Status report

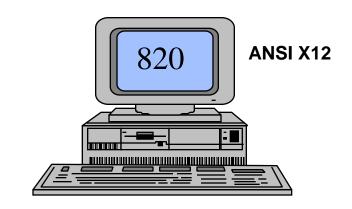
\* - Indicates transaction sets contracted for implementation with SPS.

820 - Payment Order/ Remittance Advice

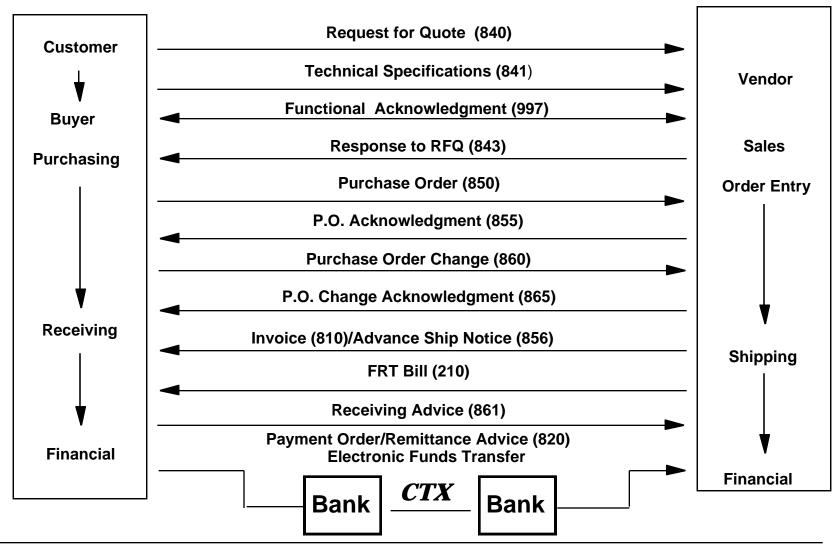
823 - Lockbox

824 - Application Advice

828 - Preauthorized Debit



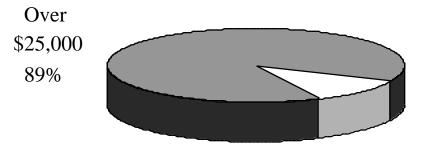
## TRANSACTIONS BETWEEN COMPUTER APPLICATIONS OF DIFFERENT ORGANIZATIONS



# FEDERAL GOVERNMENT PROCUREMENTS

- n The Government spends \$2,000,000,000,000 per year for goods and services (FY94 DoD share \$112B)
- n 89% of the dollars Washington spends goes toward purchases over \$25,000
- n 98 % of the Government's transactions are less than \$25,000

#### **Government Dollars Spent**



Under \$25,000 or 11%

#### **Federal Purchase Transactions**

Under \$25,000 98%

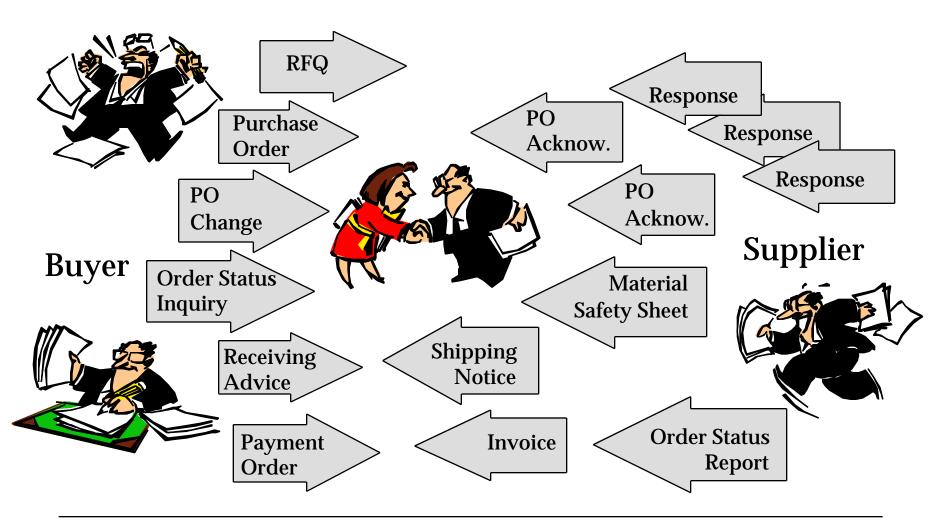
Over \$25,000 89%

#### **CURRENT BUYING PROCEDURES**

#### From a Buyer's perspective:

- Nery paper intensive
- n Lots of regulations and certifications
- n Administrative burden
- n Mix of paper and EDI vendors
- n Uncertainty in status of actions

#### CURRENT PROCUREMENT SYSTEM



#### **EDI BENEFITS**



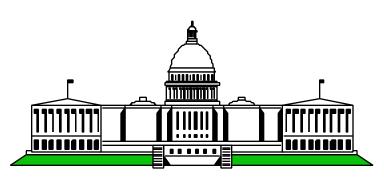
Increased business with other private sector companies

- n Increased efficiency and effectiveness
- n Improvements in overall quality
- n Reduced inventory
- n Lower mailing costs
- n Reduced over time
- n Faster billing
- n Better information for management decisions



FEDERAL ACQUISITION STREAMLINING

ACT OF 1994 (FASA)



Streamline business processes & utilize EC technologies

- n Reduce administrative costs
- n Facilitate acquisition of commercial products
- n Expand the use of small purchase procedures
- Move paper-based systems to EC
- n Repeals or modifies more than 225 acquisition laws
- n Improve the efficiency of the procurement process
- n Uniform treatment of DoD and Civilian Agency procurements

#### EC EMPHASIS OF FASA

- n Simplified Acquisition Threshold (SAT):
  - Formerly "small purchases"
  - Threshold = \$100,000
  - Buyers must send out RFQs via EDI to qualify for \$100,000 SAT ceiling
- n Micropurchases
- n Federal Acquisition Computer Network (FACNET):
  - EC/EDI connection
  - Uses national and international data formats that serve to facilitate EDI
  - Allows user access through any point of entry

#### **MICROPURCHASES**

### <u>Now...</u>

- © Purchases below \$2,500
- © Encourages credit card purchases
- Agencies can offer Micropurchases via EDI at their discretion

#### Eliminates...

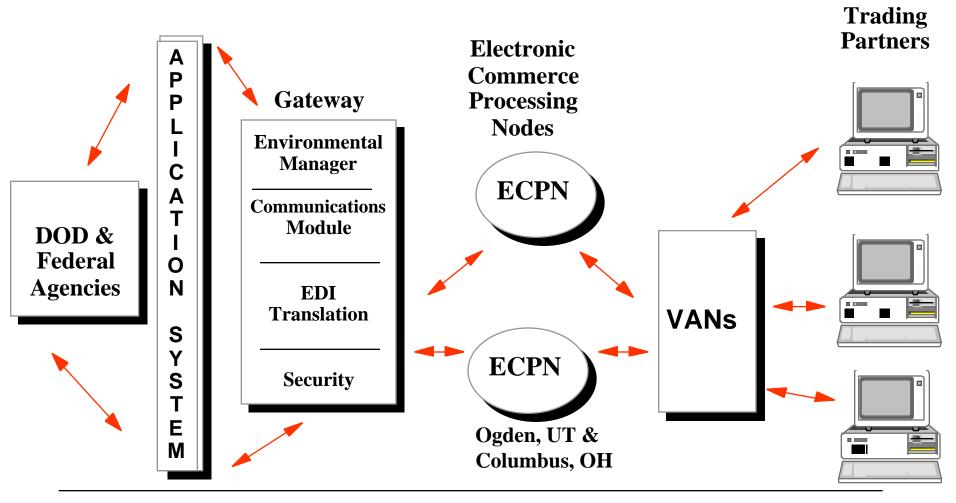
- Small business set asides
- **Buy American** Act requirements
- Open competition, if the price is "reasonable"

#### **FACNET**

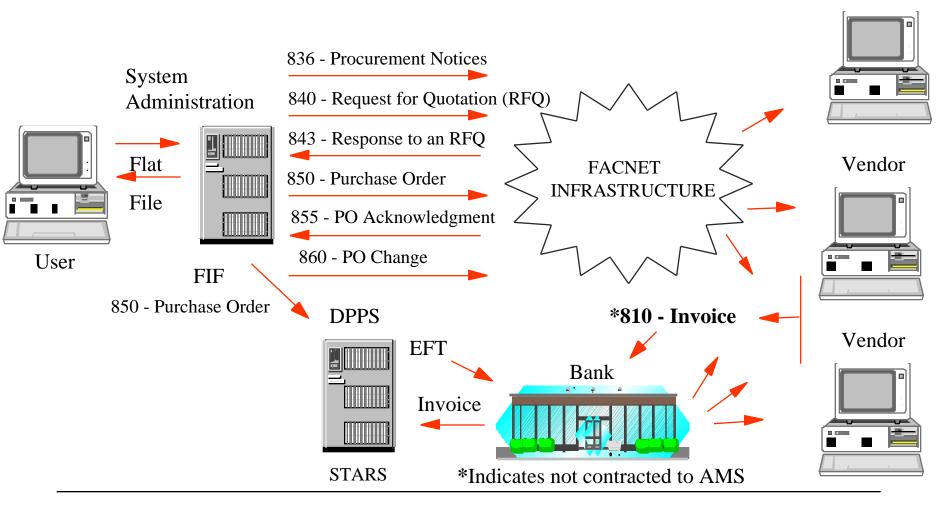
A computer-based source of information readily accessible to Government and private sector users, including small businesses:

- n Gateway DoD agencies' data entry point:
  - Converts business data into ANSI X12 format
- n Electronic Commerce Processing Nodes (ECPN):
  - Distribution Hub
- n Value Added Network (VAN):
  - Supplier's interface with FACNET
  - Electronic mailbox for exchange transactions

#### FACNET INFRASTRUCTURE



#### SPS TO "BE SYSTEM"



Vendor

#### BEYOND FACNET

- n Proposed Bill "Federal Planning and Electronic Commerce Improvement Act of 1997":
  - Modifies FASA of 1994
  - Government must keep pace with evolving technologies
- n The key issue is to be able to transmit and store EDI information in a reliable and secure environment.
- n A USN initiative underway is a Internet-based system with direct on-line access that will augment existing EDI and EC in contracting systems.

#### RESOURCES

n Acquisition Reform: http://www.acq.osd.mil/ar/

n DoD Electronic Commerce Office:

http://www.acq.osd.mil/ec/

Navy Acquisition Reform: http://www.acq-ref.navy.mil/

n Navy SPS:

http://www.abm.rda.hq.navy.mil/sps/

n SPS Program Management Office:

http://www.sps.hq.dla.mil/

n AMS:

http://pd2.amsinc.com/